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DIALOG(R)File 351:DERWENT WPI
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WPI Acc No: 74-60307V/197434

Block copolymers of aromatic polyamides and polyethers - with functional end gps, giving films with improved mechanical properties

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Number of Countries: 006 Number of Patents: 011

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 2405646	A	19740814					197434 B
FR 2216316	A	19741004					197448
JP 49105850	A	19741007					197513
JP 50029697	A	19750325					197526
JP 49110744	A	19741022					197541
US 3946089	A	19760323					197614
GB 1449315	A	19760915					197638
JP 78032396	B	19780907					197840
CA 1039886	A	19781003					197842
DE 2405646	B	19790913					197938
JP 80019948	B	19800529					198026

Priority Applications (No Type Date): JP 7321584 A 19730222; JP 7315318 A 19730206

Abstract (Basic): DE 2405646 A

The block copolymers consists of (A) a polyamide from 50-100% m-xylylene diamine or its mixts. with p-xylylene diamine and a dicarboxylic acid component of which 50-100: mol.% consists ≥ 16 -12C aliphatic acid, and (B) 0.2-10 wt. % polyether with an amine or carboxylic gp in the ≥ 1 end posn. and mol. wt. 2000-20,000. The copolymer has an extinction index (difference in extinction values at 400 and 800 m μ , of amorphous film divided by thickness) of 1 min., and the particles of (B) are agglomerated to a size of 10 μ max. and dispersed in the copolymer. Pref. 70-100 mol. % of the diamine consists of xylylene diamines and 70-100% of the dicarboxylic acid consists of 6-12C aliphatic acids pref. adipic acid. (B) is pref. bis-amino propyl (polyethylene oxide). The copolymers have the excellent physical and mechanical props of polymers of (A) alone, without the poor flex and fold resistance and impact resistance caused by small amts. of non-extractable oligomers in the latter.